

VISITING RESEARCHERS

DIPC understands that modern science entails the constant exchange of knowledge and experience to the benefit of all involved.

LONG VISITS.....	82
SHORT VISITS	84

LONG VISITS**PROF. W. SCHATTKE**

Universität Kiel, Germany
18-01 through 18-04-2005

Variational Quantum Monte Carlo calculations of the electronic properties of solids and surfaces. Theory of Photoemission in semiconductors and metals.

DR. Y. KOROTEEV

University Estatal de Tomsk, Russia
04-02 through 01-05-2005

First principles calculations of electronic structure and quasiparticle lifetimes in metals.

PROF. B. GUMHALTER

University of Zagreb, Croatia
28-02 through 01-04-2005

Ultrafast electron dynamics on metal surfaces.

DR. W.A. HOFER

University of Liverpool, UK
29-04 through 30-05-2005

Theory of scanning tunneling microscopy.

DR. S. BORISOVA

Physics and Materials Science, Russian Academy of Sciences, Tomsk, Russia
11-05 through 07-07-2005

Phonons in metal adlayers.

DR. S. EREMEV

Institute of Strength Physics and Materials Sciences, Tomsk, Russia
11-05 through 07-07-2005

Phonons and electron-phonon coupling in quantum-well states of adlayers on metals.

DOCTORAND M.L. VIANA ALVARENGA

Universidade Federal de Minas Gerais, Brasil
02-06 through 10-08-2005

Genetic algorithms applied to the optimization of surface structures in photoelectron diffraction.

PROF. J. ALONSO

Universidad de Valladolid, Spain
18-06 through 15-09-2005

Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes.

Laser induced fragmentation of atomic clusters.

PROF. R. QUIRK

The University of Akron, USA
08-07 through 31-12-2005

Synthesis of functional polymers.

PROF. E. ARTACHO

University of Cambridge, UK
17-07 through 07-09-2005

• Electronic stopping power in insulators.
• LDA+U, SIC, exact-exchange in DFT calculations.

DR. C. LEMELL

Technische Universität Wien, Austria
19-07 through 30-09-2005

Kinetic electron emission from magnetized surfaces.

DR. G. RUSINA

Russian Academy of Sciences, Tomsk, Russia
02-08 through 30-09-2005

Surface phonons in CuPd surface alloys.

DR. T. TEPERIK

Russian Academy of Sciences, Saratov, Russia
10-08 through 30-09-2005

• Electromagnetic optics.
• Collective resonances in nanostructures.

DR. S. CRUZ JIMÉNEZ

Universidad Autónoma Metropolitana-Iztapalapa, México
03-09 through 08-10-2005

Stopping power theory: Study of chemical binding effects on the stopping power of ions in compound target materials as well as development of theoretical models to account for target pressure effects on the stopping and range of heavy ions.

Boxed-in atoms and molecules: Study of spatial confinement effects on the energy levels of atoms/molecules as well as the effect of pressure on molecular conformation and bond compressibility.

DR. A.Y. BORISSOV

Université Paris-Sud, France
01-10 through 30-11-2005

Time-dependent density functional theory and wave packet propagation methods.

DOCTORAND P. LAZIC

Rudker Boskovic Institute, Zagreb, Croatia
01-10 through 22-12-2005

Ultrafast electron dynamics on metal surfaces.

DOCTORAND J. RAMIRO MANJARRÉS

Universidad del País Vasco/Euskal Herriko Unibertsitatea, Spain
01-10 through 31-12-2005

Relationship between the quality level reached in "hot-embossing" replication processes and the physical properties of the polymer utilized.

PROF. M. PUSKA

Helsinki University of Technology, Finland
03-10-2005 through 31-03-2006

Lifetimes of electron-hole excitations at nanostructures on solid surfaces.

SHORT VISITS**PROF. J. ALONSO**

Universidad de Valladolid, Spain
23-12-2004 through 07-01-2005

Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

PROF. I. NAGY

Technical University of Budapest, Hungary
04-01 through 03-02-2005

Various aspects of correlations in extended fermionic systems; spin-fluctuation, pair-correlation, one-particle damping, impurity-screening.

PROF. A. POSTNIKOV

Universität Osnabrück, Germany
25-01 through 06-02-2005

Studies of magnetism in intermetallic compounds, diluted and disordered alloys, and in small clusters/nanoparticles.

PROF. J.A. SÁNCHEZ-GIL

Instituto de Estructura de la Materia, CSIC, Spain
25-01 through 26-01-2005

Surface plasmon photonics on surfaces with sub-wavelength structures: from nano-optics on metals to THz waves on semiconductors.

DR. R. JANSEN

University of Twente, Enschede, The Netherlands
27-01 through 30-01-2005

Spin-transport in semiconductor/ferromagnet hybrid structures.

DR. M. DUBOIS

IEMN/ISEN/Physique, France
02-02 through 23-02-2005

Scanning tunneling spectroscopy of organic molecules supported on semiconductor and semimetal surfaces.

DR. V. TUGUSHEV

Russian Research Center "Kurchatov Institute", Moscow, Russia
08-02 through 05-03-2005

Magnetism in superlattices and spintronics.

DR. A.F. HO

University of Birmingham, UK
14-02 through 28-02-2005

Effects of disorder in one-dimensional quantum liquids, and phase diagram of binary mixtures of one-dimensional harmonic fluids.

PROF. T. NAGAO

Tohoku University, Japan
21-02 through 26-02-2005

Surface phonons and adlayer crystal structures.

DR. S. ROCHE

CEA-DSM/DRFMC/SPSMS, France
22-02 through 24-02-2005

Unconventional mesoscopic transport in carbon nanotubes based materials.

DR. J.O. FJAERESTAD

University of Queensland, Australia
24-02 through 01-03-2005

Phase diagram of ladder compounds.

PROF. W. JASKÓLSKI

Institute of Physics Nicholas Copernicus University, Poland
09-03 through 13-03-2005

On peculiar properties of carbon nanotubes.

PROF. J. ALONSO

Universidad de Valladolid, Spain
24-03 through 03-04-2005

Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

PROF. C. LAUBSCHAT

Institut für Festkörperphysik, Germany
31-03 through 01-04-2005

Correlated electronic structure of rare earth systems.

DR. N. LORENTE

Université Paul Sabatier, Toulouse, France
04-04 through 29-04-2005

Metallic and semimetallic nanometer-wide silicon nanowires.

PROF. N. MARCH

Universiteit Antwerpen, Belgium
10-04 through 08-05-2005

Study of the role of exchange and correlation effects in both ground state density functional theory as well for excitation within time-dependent density-functional theory.

DR. M.S. GRAVIELLE

Instituto de Astronomía y Física del Espacio, Buenos Aires, Argentina
11-04 through 20-04-2005

Atomic collisions and collisions with solids.

PROF. F. AUZEL

UMR Groupe d'Optique des Terres Rares, France
12-04 through 28-05-2005

Powder coherent sources both of the superradiant (SR) and Amplified Spontaneous Emission (ASE) types [1,2,3,4].

DOCTORAND S. MONTURET

Université Paul Sabatier, Toulouse, France
18-04 through 20-04-2005

Molecules on surfaces.

PROF. J.M. ALONSO PRUNEDA

ICMAB-CSIC, Barcelona, Spain
24-04 through 29-04-2005

Stopping of slow ions in insulators.

DR. H. SCHWARZ

Technische Universität Berlin, Germany
25-04-2005

Gas-phase catalysis by atomic cluster metal ions; the ultimate single-site catalysts.

DR. J.I. PASCUAL CHICO

Freie Universität Berlin, Germany
27-04 through 29-04-2005

Scanning tunneling spectroscopy.

PROF. G. MORATA

Universidad Autónoma de Madrid, Spain
29-04 through 03-05-2005

The three revolutions in biology.

DR. E. MENA-OSTERITZ

Universität Ulm, Germany
03-05 through 04-05-2005

Self assembled monolayers.

PROF. J. PENDRY

Imperial College, London, UK
15-05 through 20-05-2005

The perfect lens-focusing beyond the diffraction limit.

PROF. J. INGLESFIELD

University of Wales, Cardiff, UK
15-05 through 19-05-2005

Embedding in photonics and plasmon bands in metallic nanostructures.

DR. F. JONSSON

EPSRC NanoPhotonics Portfolio Centre, UK
16-05 through 18-05-2005

All optical switching using nano-structural phase transformation.

PROF. H. PETEK

University of Pittsburgh, Pennsylvania, USA
23-05-2005 through 26-05-2005

Electron dynamics in time domain.

PROF. B. HELLSING

Chalmers and Göteborg University, Sweden
23-05 through 27-05-2005

Electron-phonon interactions on metal surfaces.

DR. G. AMBROSCH-DRAXL

University of Graz, Austria
30-05 through 03-06-2005

Electron dynamics in transition metals.

PROF. A. GALINDO

Universidad Complutense de Madrid, Spain
30-05 through 01-06-2005

Quantum information and quantum algorithms. Basic problems in Quantum Physics. Completion of a two-volume textbook on Advanced Quantum Mechanics, and a textbook on Space-Time Structure.

PROF. I. NAGY

Technical University of Budapest, Hungary
01-06 through 30-06-2005

Various aspects of correlations in extended fermionic systems; spin-fluctuation, pair-correlation, one-particle damping, impurity-screening.

PROF. V.H. PONCE

Centro Atómico Bariloche, Argentina
30-06-2005

Electron emission in the interaction of light ions with surfaces.

DR. A. BORISOV

Université Paris Sud, France
01-06 through 30-06-2005

Time-dependent density functional theory and wave packet propagation methods.

DR. G. BIHLMAYER

IFF-FZ, Forschungszentrum Jülich, Germany
04-06 through 30-06-2005

Magnetism in low dimensions: Overlayers, wires and atoms.

PROF. U. HEINZMANN

Universität Bielefeld, Germany
09-06 through 13-06-2005

Time resolved photoemission.

DR. J. GARCÍA DE ABAJO

Unidad de Física de Materiales, CSIC, Spain
09-06-2005

Simulation of optical properties of complex structures including porous metals and non-spherical nanoparticles. Study of the response of nanostructures and its interactions with fast electron. Simulation of electron-energy loss spectroscopy cathodoluminescence, and Cherenkov radiation in complex systems.

PROF. N.W. ASCHROFT

Cornell University, New York, USA
19-06 through 02-07-2005

Theory of many particle systems, density functional, theory (classical and quantum), and theory of dense hydrogen and matter under extreme conditions.

DR. C. VALLÉS CALLIZO

Instituto de Carboquímica, CSIC, Zaragoza, Spain
27-06 through 01-07-2005
Synthesis of carbon nanotubes.

DR. P.J. ORDEJÓN RONTOME

CSIC-ICMB, Barcelona, Spain
01-07 through 30-07-2005
First principles calculations of ballistic transport in nanoscale systems.

DR. J. FERRER RODRÍGUEZ

Universidad de Oviedo, Spain
06-07 through 08-07-2005
Spin-orbit interaction within the SIESTA method.

DR. V.M. GARCÍA SUAREZ

Universidad de Oviedo, Spain
06-07 through 08-07-2005
Spin-orbit interaction within the SIESTA method.

DR. G. BRYANT

National Institute of Standards and Technology, Gaithersburg, Maryland, USA
21-07 through 23-07-2005
Optoelectronic properties of quantum dots and quantum wires.

DR. D. VAKNIN

Iowa State University, USA
04-08 through 08-08-2005
The magneto-electric effect — a neutron scattering perspective.

DR. I. CAMPILLO

Euskal Herriko Unibertsitatea/ Universidad del País Vasco, Spain
26-08 through 28-08-2005
Nanostructure of cement-based materials.

PROF. A. GALINDO

Universidad Complutense de Madrid, Spain
28-08 through 11-09-2005
Quantum information and quantum algorithms. Basic problems in quantum physics. Completion of a two-volume textbook on Advanced Quantum Mechanics, and a textbook on Space-Time Structure.

PROF. A.J. DA SILVA

Universidade de Sao Paulo, Brazil
29-08 through 31-08-2005
Understanding of nanostructures in metals and semiconductors, including metallic nanocontacts, carbon nanotubes, silicon wires, and their interactions with impurities and oxidation.

DOCTORAND S. CAPPONI

University of Perugia, Italy
31-08 through 03-09-2005
Dynamics of DNA and proteins by neutron scattering.

PROF. A. HOWIE

Cavendish Laboratory, Cambridge, UK
01-09 through 15-09-2005
Theory of valence electron excitations by fast electrons.

DR. F. SCHILLER

Universität Dresden, Germany
01-09 through 30-09-2005
Crystalline and electronic structure of thin Be and Mg films.

PROF. I. NAGY

Technical University of Budapest, Hungary
02-09 through 29-09-2005
Various aspects of correlations in extended fermionic systems; spice-fluctuation, pair-correlation, one-particle damping, impurity-screening.

DR. F. BUSNENGO

Universidad de Rosario, Argentina
08-09 through 07-10-2005
Dissociation of diatomic molecules at surfaces.

PROF. L. KUIPERS

Institute for Atomic and Molecular Physics, The Netherlands
12-09 through 13-09-2005
A local(ized) view of nanoscale light propagation.

PROF. B. BRAIDA

Université Pierre et Marie Curie (Paris 6), France
12-09 through 16-09-2005
Theoretical study of SrFeO_{3-x} oxygen-vacancy perovskites: GGA versus GGA+U results.

PROF. C. FADLEY

Lawrence Berkeley National Laboratory, California, USA
13-09 through 17-09-2005
Some new directions in synchrotron radiation studies of magnetic materials and magnetic nanostructures.

PROF. E. ZAREMBA

Queens University, Ontario, Canada
15-09 through 30-09-2005
Bose-Einstein Condensation.

PROF. A. GRIFFIN

University of Toronto, Canada
15-09 through 25-09-2005
Ultracold trapped Fermi gases.

PROF. D. RICHTER

IFF-FZ, Forschungszentrum Jülich, Germany
01-10 through 09-10-2005

Polymer dynamics by neutron techniques.

PROF. A. SALIN

Université de Bordeaux I, France
03-10 through 28-10-2005

Dissociation dynamics of diatomic molecules at metal surfaces.

DOCTORAND T. HAKALA

Helsinki University of Technology, Finland
05-10 through 28-10-2005

Lifetimes of electron-hole excitations at nanostructures on solid surfaces.

PROF. J.P. GAUYACQ

Université Paris-Sud, France
16-10 through 28-10-2005

Dynamics of excited electrons at adatoms on metal surfaces.

DR. R. BERGMAN

Chalmers University of Technology, Göteborg, Sweden
26-10 through 31-10-2005

Systematic studies of the excess wing of glass-formers.

PROF. A. FERNANDEZ RAÑADA

Universidad Complutense Madrid, Spain
26-10 through 27-10-2005

The Pioneer anomaly as a problem of time dynamics.

PROF. M. ROESLER

Hahn-Meitner Institute Berlin, Germany
01-11 through 30-11-2005

Electron emission induced by atomic particles interacting with solids and surfaces.

DR. G. DARLING

University of Liverpool, UK
05-11 through 10-11-2005

Energy exchange between small molecules and metal surfaces.

DR. K. STARKE

Freie Universität Berlin, Germany
09-11 through 11-11-2005

Spectroscopy of magnetic materials.

PROF. P. LÓPEZ SANGHO

Instituto de Ciencia de Materiales de Madrid (CSIC), Spain
17-11 through 18-11-2005

New electronic effects in carbon-based materials.

DR. J. GARCÍA DE ABAJO

Unidad de Física de Materiales, CSIC, Spain
22-11 through 23-11-2005

Study of the optical properties of nanostructures using electron microscopy.

DR. R. LUND

IFF-FZ, Forschungszentrum Jülich, Germany
23-11 through 25-11-2005

Logarithmic chain exchange kinetics of polymeric micelles.

PROF. C. BALBAS RUESGAS

Universidad de Valladolid, Spain
24-11 through 25-11-2005

Theoretical study of O₂ and CO adsorption on gas phase and supported glod clusters.

DR. P. JOHANSSON

University of Örebro, Sweden
27-11 through 04-12-2005

Research on the electromagnetic and quantum mechanical response of molecules and nanoparticles in different configurations of experimental interest (STM, Raman, ...).

DR. J. BARTOS

Polymer Institute of SAS, Bratislava, Slovak Republic
28-11 through 06-12-2005

PALS and polymer dynamics.

PROF. A. SEITSONEN

Université Pierre et Marie Curie (Paris 6), France
30-11 through 03-12-2005

Density functional theory studies of self-organised organic overlayers on metal surfaces.

DR. J.M. ALAMEDA MAESTRO

Universidad de Oviedo, Spain
01-12 through 02-12-2005

Peculiar properties of the magnetization process in magnetic multilayers.

PROF. M. RAIZEN

University of Texas at Austin, USA
19-12 through 21-12-2005

Ultracold atomic gases.